

Stamped contacts Crimp female contacts diameter 1,6 mm for wire gauge AWG 20 - 16 silver plated

Part No. VN 02 016 0002 (1)

Series **Contacts**

Subseries **Contact Stamped contacts**

Common Characteristics

Contact diameter		1,6 mm
Insulation diameter		1,8 - 2,8 mm
anschlussquerschnitt_von		0,5
anschlussquerschnitt_bis		1,5
anschlussquerschnitt_awg_von		20
anschlussquerschnitt_awg_bis		16
Packaging / supplied as		Single contact
No. of pieces		100
Sex of Contact		Socket
Type of contact		Stamped/rolled crimp contact

Electrical Characteristics

Contact resistance	DIN EN 60512-2-1, Test 2a / IEC 60512-2-1, Test 2a	< 5 m
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Amphenol

Amphenol-Tuchel Electronics GmbH

Series C 146

Heavy Duty Connectors
Core Programme



C 146

Characteristics

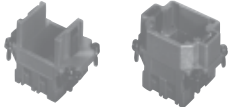



Series	C 146 D							C 146 DD				C 146 E					C 146 EE			
Number of contacts	7+PE, 8	15+ PE	25+ PE	40+ PE	50+ PE	64+ PE	128+ PE	24+ PE	42+ PE	72+ PE	108+ PE	6 +	10 +	16 +	24 +	48 +	10+ PE	18+ PE	32+ PE	46+ PE
Termination	crimp							crimp				crimp/screw								
Wire gauge	0,14 - 2,5							0,14 - 2,5				0,5 - 4,0 0,25 - 2,5					0,5 - 4,0			
Flammability (UL 94)	V - 0							V - 0				V - 0					V - 0			
Certifications	UL, CSA							UL, CSA									UL, CSA			
according DIN EN 175301-801		✓	✓	✓		✓														
Insertion and withdrawal force in N	10 - 15	20 - 30	40 - 60	60 - 90	80 - 120	100 - 150	200 - 300					SCR ¹ : 20-30 CR: 10-20	SCR ¹ : 40-50 CR: 30-40	SCR ¹ : 80-100 CR: 45-60	SCR ¹ : 100-120 CR: 70-100	SCR ¹ : 200-240 CR: 140-200				
Rated voltage (VDE)	250							250				400					500			
Rated voltage (UL, CSA) in V	600							600				600					600			
Pollution degree	3							2 (3 in mated and locked condition)				3					3			
Installation (overvoltage) category	III							III				III					III			
Rated current (Tu=40°C) in A	16	12	10				9	8	22	19	18			16						
Lower temperature in °C	-40							-40				-40					-40			
Upper temperature in °C	+125							+100				+125					+100			

¹SCR = screw, CR = crimp

Series	C 146 M											C 146 A			
Number of contacts	20	10	10	5	3	4+PE/5	3	3	Rj45 + 4	Pneu	3,4 +	10 +	16 +	32 +	
Termination	crimp	crimp	crimp	crimp	crimp	crimp	crimp&solder	crimp	crimp&push	tube	screw				
Contacts	stamped	stamped	turned	turned	turned	stamped	Coax	turned	turned	termination					
Wire gauge	0,09 - 0,5	0,14 - 2,5	0,14 - 2,5	0,5 - 4,0	1,5 - 10	0,5 - 4,0		1,5 - 10	0,14 - 2,5	2,5 + 4,0	0,25 - 2,5				
Flammability (UL 94)	V - 0											V - 0			
Certifications	UL, CSA, SEV, VDE											UL, CSA			
Insertion and withdrawal force in N	10 - 15	20 - 25	25 - 30	25 - 30	20 - 30	15 - 20	25 - 30	20 - 30	15 - 20		15 - 20	50 - 70	80 - 100	160 - 200	
Rated voltage (VDE)	63	250	250	400	630	1000	250	1000	125V + 400V		400	250			
Rated voltage (UL, CSA) in V	63	250	250	400	630	1000	250	1000	125V + 400V		600				
Pollution degree	3											3			
Installation (overvoltage) category	III	III	III									III			
Rated current (Tu=40°C) in A	5	10	10	20	50	16		50	1,5 and 13		18	16	14		
Lower temperature in °C	-40									-20		-40			
Upper temperature in °C	+ 125		+ 100			+ 125				+ 80	+ 100	+ 100			

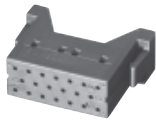


C 146 M






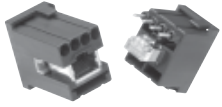

Frames

Description - Figure	Positions	Part No.	
		Frame for pin modules	Frame for socket module
Frame for 2 modules 	A - B	C146 P06 001 G8 C146 P06 002 G8 (2 x PE)	C146 S06 001 G8 C146 S06 002 G8 (2 x PE)
Frame for 3 modules 	A - C	C146 P10 001 G8 C146 P10 002 G8 (2 x PE)	C146 S10 001 G8 C146 S10 002 G8 (2 x PE)
Frame for 5 modules 	A - E	C146 P16 001 G8 C146 P16 002 G8 (2 x PE)	C146 S16 001 G8 C146 S16 002 G8 (2 x PE)
Frame for 7 modules 	A - G T - Z	C146 P24 001 G8 C146 P24 002 G8 (2 x PE) C146 P24 101 G8 C146 P24 102 G8 (2 x PE)	C146 S24 001 G8 C146 S24 002 G8 (2 x PE) C146 S24 101 G8 C146 S24 102 G8 (2 x PE)

C 146 M

Modules Contacts

Description - Figure	Part No.		Part No.								
	pin module	socket module	Supplied as	for wire gauge	AWG	Pieces	Male contacts	Female contacts			
20 contacts for stamped contacts 	C146 A20 001 G8	C146 B20 001 G8	Single contacts for hand crimping tools			gold plating					
				0,09 - 0,25 mm ²	28-24	100	VN01 010 0130 (2)	VN02 010 0130 (2)			
				0,25 - 0,50 mm ²	24-20	100	VN01 010 0131 (2)	VN02 010 0131 (2)			
			Contacts on reel for hand crimping tools								
				0,09 - 0,25 mm ²	28-24	500	ZN01 010 0130 (2)	ZN02 010 0130 (2)			
				0,25 - 0,50 mm ²	24-20	500	ZN01 010 0131 (2)	ZN02 010 0131 (2)			
			Contacts on reel for crimp machines								
			Contact feeding left hand side ²⁾	0,09 - 0,25 mm ²	28-24	2000	TN01 010 0130 (2)	TN02 010 0130 (2)			
				0,25 - 0,50 mm ²	24-20	2000	TN01 010 0131 (2)	TN02 010 0131 (2)			
			10 contacts for stamped contacts 	C146 D10 001 E8	C146 C10 001 G8	Stamped single contacts			silver plating		
Standard	0,14 - 0,5 mm ²	26-20				100	VN01 016 0003 (1)	VN02 016 0003 (1)			
	0,5 - 1,5 mm ²	20-16				100	VN01 016 0002 (1)	VN02 016 0002 (1)			
	1,5 - 2,5 mm ²	16-14				100	VN01 016 0005 (1)	VN02 016 0005 (1)			
	High current	0,5 - 1,5 mm ²				20-16	100	VN01 016 0015 (1)	VN02 016 0015 (1)		
1,5 - 2,5 mm ²		16-14				100	VN01 016 0016 (1)	VN02 016 0016 (1)			
Stamped contacts on reel for hand crimp tools						silver plating					
Standard	0,14 - 0,5 mm ²	26-20				200	ZN01 016 0003 (1)	ZN02 016 0003 (1)			
	0,5 - 1,5 mm ²	20-16				200	ZN01 016 0002 (1)	ZN02 016 0002 (1)			
	1,5 - 2,5 mm ²	16-14				100	ZN01 016 0005 (1)	ZN02 016 0005 (1)			
	High current	0,5 - 1,5 mm ²				20-16	200	ZN01 016 0015 (1)	ZN02 016 0015 (1)		
1,5 - 2,5 mm ²		16-14				100	ZN01 016 0016 (1)	ZN02 016 0016 (1)			
Stamped contacts on reel for crimp machines						silver plating					
Contact feeding left hand side ²⁾	0,14 - 0,5 mm ²	26-20				2000	TN01 016 0003 (1)	TN02 016 0003 (1)			
	0,5 - 1,5 mm ²	20-16				2000	TN01 016 0002 (1)	TN02 016 0002 (1)			
Standard	1,5 - 2,5 mm ²	16-14				2000	TN01 016 0005 (1)	TN02 016 0005 (1)			
	High current	0,5 - 1,5 mm ²				20-16	2000	TN01 016 0015 (1)	TN02 016 0015 (1)		
		1,5 - 2,5 mm ²				16-14	2000	TN01 016 0016 (1)	TN02 016 0016 (1)		
10 contacts for turned contacts 	C146 A10 001 E8	C146 B10 001 E8				Turned crimp contacts			silver plating		
						Single contact	0,14 - 0,37 mm ²	26-22	100	VN01 016 0024 (1)C	VN02 016 0024 (1)C
			0,5 mm ²	20	100		VN01 016 0025 (1)C	VN02 016 0025 (1)C			
			0,75 - 1,0 mm ²	20-16	100		VN01 016 0026 (1)C	VN02 016 0026 (1)C			
			1,5 mm ²	16-15	100		VN01 016 0027 (1)C	VN02 016 0027 (1)C			
			2,5 mm ²	14	100		VN01 016 0028 (1)C	VN02 016 0028 (1)C			

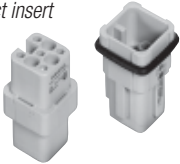
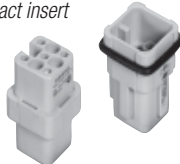
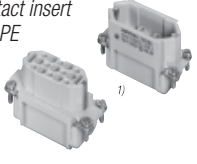
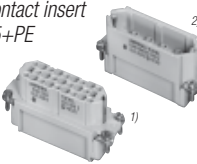
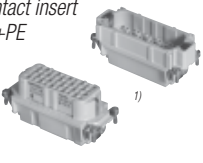
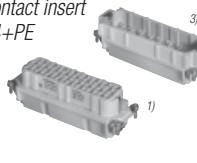
Description - Figure	Part No.		Turned crimp contacts				silver plating		
	pin module	socket module	Supplied as	for wire gauge	AWG	Pieces	Male contacts	Female contacts	
5 contacts for turned contacts 	C146 A05 001 E8 ¹⁾	C146 B05 001 E8 ¹⁾	Single contact	0,5 mm ²	20	100	VN01 025 0029 (1)C	VN02 025 0029 (1)C	
				0,75 - 1,0 mm ²	18	100	VN01 025 0030 (1)C	VN02 025 0030 (1)C	
				1,5 mm ²	16	100	VN01 025 0031 (1)C	VN02 025 0031 (1)C	
				2,5 mm ²	14	100	VN01 025 0032 (1)C	VN02 025 0032 (1)C	
				4,0 mm ²	12	100	VN01 025 0033 (1)C	VN02 025 0033 (1)C	
3 contacts for turned contacts 	C146 A03 001 E8	C146 B03 001 E8	Single contact	Turned crimp contacts					
				1,5 mm ²	16	100	VN01 036 0004 (1)C	VN02 036 0004 (1)C	
				2,5 mm ²	14	100	VN01 036 0005 (1)C	VN02 036 0005 (1)C	
				4,0 mm ²	12	100	VN01 036 0001 (1)C	VN02 036 0001 (1)C	
				6,0 mm ²	10	100	VN01 036 0002 (1)C ¹⁾	VN02 036 0002 (1)C ¹⁾	
5 contacts for stamped contacts 	C146 D04 001 E8 (4 pol)	C146 C04 001 E8 (4 pol)		Stamped single contacts					
				0,5 - 1,5 mm ²	20-16	100	VN01 025 0001 (101)	VN02 025 0001 (101)	
				1,5 - 2,5 mm ²	16-14	100	VN01 025 0010 (101)	VN02 025 0010 (101)	
	C146 D05 001 E8 (4 + PE)	C146 C05 001 E8 (4 + PE)			Contacts on reel for hand crimping tools				
					0,5 - 1,5 mm ²	20-16	200	ZN01 025 0001 (1)	ZN02 025 0001 (1)
	C146 D05 801 E8 (5 pol)	C146 C05 801 E8 (5 pol)		Contact feeding left hand side ²⁾	Contacts on reel for crimp machines				
					0,5 - 1,5 mm ²	20-16	2000	TN01 025 0001 (1)	TN02 025 0001 (1)
					1,5 - 2,5 mm ²	16-14	2000	TN01 025 0010 (1)	TN02 025 0010 (1)
	3 contacts for coax contacts 	C146 A03 501 E8	C146 B03 501 E8	Single contact	Crimp contacts for cable size				
					RG 174, 179, 316		1	17 DM 537 401	17DM 537 421
RG 58						1	17 DM 537 405	17DM 537 425	
3 contacts for turned contacts 	C146 A03 801 E8	C146 B03 801 E8	Single contact	Turned crimp contacts					
				1,5 mm ²	16	100	VN01 036 0004 (1) C	VN02 036 0004 (1) C	
				2,5 mm ²	14	100	VN01 036 0005 (1) C	VN02 036 0005 (1) C	
				4,0 mm ²	12	100	VN01 036 0001 (1) C	VN02 036 0001 (1) C	
				6,0 mm ²	10	100	VN01 036 0002 (1) C	VN02 036 0002 (1) C	
<i>RJ module</i> 	C146 E12 001 E8	C146 F12 001 G8		Turned crimp contacts					
				0,14 - 0,37 mm ²	26-22	100	VN01 016 0024 (1) C	VN02 016 0024 (1) C	
				0,5 mm ²	20	100	VN01 016 0025 (1) C	VN02 016 0025 (1) C	
				0,75 - 1,0 mm ²	20-16	100	VN01 016 0026 (1) C	VN02 016 0026 (1) C	
				1,5 mm ²	16-15	100	VN01 016 0027 (1) C	VN02 016 0027 (1) C	
<i>Pneumatic module, 1 or 2 connections</i> 	C146 G01 014 G8 (2,5 mm)	C146 H01 034 G8 (2,5 mm)							
	C146 G01 024 G8 (4,0 mm)	C146 H01 044 G8 (4,0 mm)							
	C146 G02 014 G8 (2,5 mm)	C146 H02 034 G8 (2,5 mm)							
	C146 G02 024 G8 (4,0 mm)	C146 H02 044 G8 (4,0 mm)							

¹⁾ For gold plated contacts please refer C146 main catalog or www.amphenol.info.

²⁾ For right feeding contacts please refer C146 main catalog or www.amphenol.info.

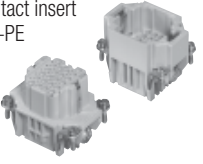
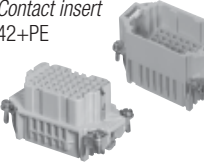
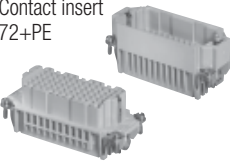
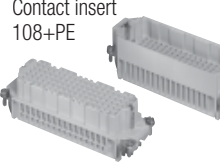
C 146 D

Inserts

Description - Figure	Part No.		Description - Figure	Part No.	
	Male insert	Female insert		Male insert	Female insert
Contact insert 7+PE 	C146 10A007 000 2 (for stamped crimp contacts) C146 10A007 500 2 (for turned crimp contacts)	C146 10B007 000 2 (for stamped crimp contacts) C146 10B007 500 2 (for turned crimp contacts)	Contact insert 8 pol 	C146 10A008 000 2 (for stamped crimp contacts) C146 10A008 500 2 (for turned crimp contacts)	C146 10B008 000 2 (for stamped crimp contacts) C146 10B008 500 2 (for turned crimp contacts)
Contact insert 15+PE 	C146 10A015 000 2 (for stamped crimp contacts) C146 10A015 500 2 (for turned crimp contacts)	C146 10B015 000 2 (for stamped crimp contacts) C146 10B015 500 2 (for turned crimp contacts)	Contact insert 25+PE 	C146 10A025 000 2 (for stamped crimp contacts) C146 10A025 500 2 (for turned crimp contacts)	C146 10B025 000 2 (for stamped crimp contacts) C146 10B025 500 2 (for turned crimp contacts)
Contact insert 40+PE 	C146 10A040 000 2 (for stamped crimp contacts) C146 10A040 500 2 (for turned crimp contacts)	C146 10B040 000 2 (for stamped crimp contacts) C146 10B040 500 2 (for turned crimp contacts)	Contact insert 64+PE 	C146 10A064 000 2 (for stamped crimp contacts) C146 10A064 500 2 (for turned crimp contacts)	C146 10B064 000 2 (for stamped crimp contacts) C146 10B064 500 2 (for turned crimp contacts)

C 146 DD

Inserts

Description - Figure	Part No.		Description - Figure	Part No.	
	Male insert	Female insert		Male insert	Female insert
Contact insert 24+PE 	C146 10A024 000 9 (for turned crimp contacts)	C146 10B024 000 9 (for turned crimp contacts)	Contact insert 42+PE 	C146 10A042 000 9 (for turned crimp contacts)	C146 10B042 000 9 (for turned crimp contacts)
Contact insert 72+PE 	C146 10A072 000 9 (for turned crimp contacts)	C146 10B072 000 9 (for turned crimp contacts)	Contact insert 108+PE 	C146 10A108 000 9 (for turned crimp contacts)	C146 10B108 000 9 (for turned crimp contacts)

C 146 D / C 146 DD



Contacts⁴⁾

Supplied as	for wire gauge	AWG	Pieces	Part No.	
				Male contact	Female contact
Stamped single contacts					
Standard High current	0,14 - 0,5 mm ²	26 - 20	100	VN01 016 0003 (1)	VN02 016 0003 (1)
	0,5 - 1,5 mm ²	20 - 16	100	VN01 016 0002 (1)	VN02 016 0002 (1)
	1,5 - 2,5 mm ²	16 - 14	100	VN01 016 0005 (1)	VN02 016 0005 (1)
	0,5 - 1,5 mm ²	20 - 16	100	VN01 016 0015 (1)	VN02 016 0015 (1)
	1,5 - 2,5 mm ²	16 - 14	100	VN01 016 0016 (1)	VN02 016 0016 (1)